ABSTRACT OF THE DISCLOSURE

An optical interconnection device is provided which comprises an optical waveguide layer, wherein the waveguide layer is equipped with a plurality of electrodes which are independently drive-controllable such that a refractive index distribution is generated in the waveguide layer by drive control of the electrodes to control a propagation state of light in the waveguide layer, and an optical interconnection port is provided on an upper or lower surface or inside of the waveguide layer.